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Date: February 5, 2007 Refer to: ENV-DO:07-003

Mr. Edward Horst Manager, Enforcement New Mexico Environment Department Air Quality Bureau 2048 Galisteo St. Santa Fe, New Mexico 87505

SEMI-ANNUAL MONITORING REPORT FOR JULY – DECEMBER, 2006 AIR QUALITY TITLE V OPERATING PERMIT P100-M1 IDEA ID NO. 856 – LOS ALAMOS NATIONAL LABORATORY (LANL)

Dear Mr. Horst:

Enclosure-1 contains the Los Alamos National Laboratory's Title V Operating Permit semi-annual monitoring report for the period **July 1 – December 31, 2006**. This submission is required by permit condition 4.2 of NMED Operating Permit P100-M1 dated June 15, 2006, and is transmitted within the allowed 45 days after the end of the reporting period, as specified in permit condition 4.3.

One deviation was identified in the deviations section of this report. The deviation refers to the degreaser unit at TA-55 and the ability to meet the freeboard ratio. LANL Ecology and Air Quality (EAQ) staff met with you to discuss the compliance approach currently used for the degreaser and whether this approach requires EPA approval. LANL will notify EPA Region 6 and request approval for the alternative measures. We have contacted Michelle Kelly, Air Enforcement Section, EPA Region 6, and will send a letter to her requesting approval.

If you have any questions or comments regarding this submittal or would like to discuss the submittal in greater detail, please contact Steve Story at 665-2169.

Sincerely,

Victoria A. George

Division Leader

**Environmental Protection Division** 

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SLS:alb

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R. Costa, SSS-AE-V02, w/o enc., A199

IRM-RMSSO, w/o enc., A150

ESH&Q File, w/o enc., K491

ENV-MAQ Title V Monitoring Report File, with enclosure

ENV-EAQ File

# **Enclosure - 1**

Los Alamos National Laboratory's
Title V Operating Permit
Monitoring Report for the period
July 1 – December 31, 2006

#### LA-UR-07-0629

Approved for public release; distribution is unlimited.

Title:

Semi-Annual Monitoring Report
July 1 - December 31, 2006

Air Quality Title V Operating Permit P100M1 Los Alamos National Laboratory

Author(s):

David Paulson, ENV-EAQ

Submitted to:

Mr. Edward Horst Manager, Enforcement New Mexico Environment Department Air Quality Bureau 2048 Galisteo St. Santa Fe, New Mexico 87505



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Source Name: Los Alamos National Laboratory	County: Los Alamos .
Source Address:	
City: Los Alamos	State: <u>NM</u> Zip Code: <u>87545</u>
Responsible Official: Victoria A. George	Ph No. (505) 667-2211 Fax No. (505) 665-8858
Technical Contact: Steven L. Story	Ph No. (505) 665-2169 Fax No. (505) 665-8858
Principal Company Product or Business: National Security and	Nuclear Weapons Research Primary SIC Code: 9711
Permit No. P100M1 {IDEA/Tempo ID No. 856}	Permit Issued Date: April 30, 2004
	M1 June 15, 2006
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I, <u>Victoria A. George</u> certify that, based on informa statements and information contained in the attached semi-annu	
	Date: 1/31/07
Signature	Date: _ / / _ / /
Title: <u>Division Leader, Environmental Protection Division</u>	<del></del> -

#### Sources (by permit section)

- 1. Asphalt Production
- 2. Beryllium Activities
- 3. Boilers and Heaters
- 4. Carpenter Shops, TA-3-38 & TA-15-563
- 5. Chemical Usage
- 6. Degreasers
- 7. Internal Combustion Sources
- 8. Data Disintegrator, TA-52-11
- 9. Power Plant at Technical Area 3 (TA-3-22)

#### **Deviations**

#### **Attachments**

- A: Asphalt Plant Opacity Reports
- **B:** Beryllium HEPA Filter Tests Results
- C: Boilers and Heaters Natural Gas Usage
- D: Carpenter Shop Hours of Operation
- E: Degreaser Solvent Usage
- F: Internal Combustion Generator Hours of Operation
- G: Data Disintegrator Box Throughput
- H: Power Plant Natural Gas and Fuel Oil Usage
- 1: Power Plant Opacity Reports

#### 1. Asphalt Production

Permit Section	Monitoring Required	Monitoring Performed
2.1.4.1	Perform monthly six (6) minute opacity readings for each emission point having opacity greater than zero as determined by EPA Method 22.	Monthly opacity reports are provided as Attachment A.  Monthly six minute opacity readings are taken using the required EPA Methods.
2.1.4.2	Monitor the differential pressure (inches of water) across the baghouse by the use of a differential pressure gauge, in accordance with condition IV.C.2 of NSR permit number GCP-3-2195G.	A differential pressure gauge is in place to continuously monitor the differential pressure across the baghouse as required by NSR permit GCP-3-2195G condition IV.C.2.  The differential pressure is recorded twice each day during operations, once in the morning (or following the start-up of operations) and once in the afternoon (or prior to shutting operations down), as required by NSR permit GCP-3-2195G condition IV.D.2(e).  Records are available on-site for NMED inspection.
2.1.4.3	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

#### 2. Beryllium Activities (Permit Section 2.2.4)

Source	Monitoring Required	Monitoring Performed
TA-3-29 Chemistry and Metallurgy Research Facility	A log shall be maintained during operations which indicate the number of Be samples processed.	A log is maintained indicating the number of Be samples processed. The log is available on-site for NMED inspection.
TA-3-66 Sigma Facility	A log shall be maintained during operations which show the number of metallographic specimens used in the polishing operation and the weight of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.	A log is maintained showing the number of metallographic specimens used in the polishing operation.  Logs are maintained showing the weight of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.  Logs are available on-site for NMED inspection.
TA-3-141 Beryllium Technology Facility (BTF)	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions.	The BTF is equipped with a continuous emissions monitor to measure beryllium emissions. The monitoring system is operated in accordance with LANL Quality Assurance Project Plan ESH-17-BM and emission results are provided to NMED quarterly.  Submissions for this period were provided to NMED in reports dated August 7, 2006 [ENV-EAQ:06-218] and November 21, 2006 [ENV-EAQ:06-310]
	Cartridge and HEPA filters will be equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while	Cartridge and HEPA filters are equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while the exhaust fans

Source	Monitoring Required	Monitoring Performed
	the exhaust fans are in operation.	are in operation.
TA-16-207	Project files shall be maintained of components prepared for testing.	Project files are maintained of components prepared for testing. Files are available on-site for NMED inspection.
TA-35-87	A log shall be maintained during operations which show the number of beryllium filters cut.	A log is maintained showing the number of beryllium filters cut. The log is available on-site for NMED inspection.
TA-35-213 Target Fabrication Facility	Records of the stack emission test results (see Condition 2 of NSR Permit No. 632) and other data needed to determine total emissions shall be retained at the source and made available for inspection by the Department.	Records of stack emission test results are maintained on-site and available for NMED inspection. Stack emission test results are used to determine total emissions from this facility.
TA-55-PF-4 Plutonium Facility	The HEPA filtration systems shall be equipped with a differential pressure gauge that measures the differential pressure (inches of water) across the HEPA filters while the exhaust fans are in operation.	The HEPA filtration systems are equipped with differential pressure gauges that measure the differential pressure across the HEPA filters while the exhaust fans are in operation.
	Control efficiency shall be verified by daily HEPA filter pressure drop tests and annual HEPA filter challenge tests of accessible filters.	Control efficiency is verified by daily HEPA filter pressure drop readings. Readings are recorded in the TA-55 Operations Center.
		Annual HEPA filter challenge tests of accessible filters are performed. Test results are summarized in Attachment B.

#### 3. Boilers and Heaters

Permit Section	Monitoring Required	Monitoring Performed
2.3.4.1	Emission units TA-21-357-1, TA-21-357-2, and TA-21-357-3: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	A volumetric flow meter is utilized to measure the total amount of natural gas being used on a monthly basis for emission units TA-21-357-1, TA-21-357-2 and TA-21-357-3.  Natural gas usage is summarized in Attachment C.
2.3.4.2	Emission units TA-55-6-BHW-1 and TA-55-6-BHW-2: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	Volumetric flow meters are utilized to measure the total amount of natural gas being used on a monthly basis for emission units TA-55-6-BHW-1 and TA-55-6-BHW-2.  Natural gas usage is summarized in Attachment C.
2.3.4.3	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

#### 4. Carpenter Shops, TA-3-38 & TA-15-563

Permit Section	Monitoring Required	Monitoring Performed
2.4.4.1	The permittee shall maintain logs of the hours the carpenter shops are in operation.	A log is maintained of the hours of operation at the TA-3-38 shop. During this reporting period, hour meters were placed on the cyclone separators, which will be used for monitoring hours of shop operation.  The TA-15-563 carpenter shop is equipped with an hour meter on the cyclone separator. The hour meter is read and recorded monthly.  Hours of operation are provided in Attachment D.

#### 5. Chemical Usage

Permit Section	Monitoring Required	Monitoring Performed
2.5.4.1	Maintain records of chemical purchasing through facility-wide chemical tracking system, and use the data to calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	Records are maintained in LANL's facility wide chemical tracking system (ChemLog). The data is used to calculate emissions and is submitted in the Semi-Annual Emission Report.

#### 6. Degreasers

Permit Section	Monitoring Required	Monitoring Performed
2.6.4.1	Record the amount of solvent added to the degreaser, and calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	Records are maintained of the amount of solvent added to the degreaser. This data is used to calculate emissions on a semi-annual basis.  LANL's "Historical Solvent Usage Data" report for July 1 – Dec. 31, 2006 is provided in Attachment E.
2.6.4.2	Complete checklist for work practice standards.	LANL completes work practice checklists for the degreaser operation. The checklists are available on-site for NMED inspection.

#### 7. Internal Combustion Sources

Permit Section	Monitoring Required	Monitoring Performed
2.7.4 [Stationary Standby Generators]	Track and record hours of operation for stationary standby generators on a semi-annual basis.	LANL tracks and records generator hours of operation on a semi-annual basis.  Stationary generator hours of operation for 2006 are provided in Attachment F.
2.7.4 [TA-33-G-1]	Track hourly and 12-month rolling total kWh.  Record hours of operation and the time operation begins and ends each day.	On May 18, 2006, LANL started the TA-33 diesel generator. Other than the start up test, the generator has not run. A form has been created and will be used for tracking generator start and stop times as well as hours of operation. These hourly readings will be used in tracking the 12-month rolling total of kWh.
2.7.4.1	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

#### 8. Data Disintegrator, TA-52-11

Permit Section	Monitoring Required	Monitoring Performed
2.8.4.1	The permittee shall maintain a log of the number of boxes of media that are destroyed and calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	LANL maintains a log of the number of boxes of media that are shredded and calculates the emissions on a semi-annual basis.  The actual number of boxes shredded is included in Attachment
		G.
2.8.4.2	The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer's recommendations.	LANL maintains a log documenting all maintenance and repairs performed on the cyclone and cloth tube filters. The Data Disintegrator and associated pollution control devices are maintained under a preventative maintenance contract.

#### 9. Power Plant at Technical Area 3 (TA-3-22)

Permit Section	Monitoring Required	Monitoring Performed
2.9.4.1	Total fuel oil consumption shall be monitored so that combined fuel oil usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total.	Total fuel oil consumption is monitored on a daily basis. These daily readings are used to calculate a 365-day rolling total.  Attachment H contains a summary of monthly fuel oil consumption. Records of daily fuel oil use are available on-site for NMED inspection.
2.9.4.2	Natural gas consumption shall be monitored so that combined natural gas usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total.	A volumetric flow meter is used to measure the total amount of natural gas used on a daily basis. These daily readings are used to calculate a 365-day rolling total.  Attachment H contains a summary of monthly natural gas usage. Daily totals are available on-site for NMED inspection.
2.9.4.3	Natural gas consumption shall be monitored so that natural gas usage for Unit TA-3-22 CT-1 can be calculated on a rolling 365-day total.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.4	A certification of total sulfur content of the No. 2 fuel oil used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall be obtained from the supplier whenever No. 2 fuel oil is delivered to the facility.	No fuel oil was purchased or delivered during this reporting period.
2.9.4.5	If the certification as specified by Condition 2.9.4.4 is not available at delivery, the permittee shall analyze the No. 2 fuel oil to determine the total sulfur content. The analysis shall be	No fuel oil was purchased or delivered during this reporting period.

Permit Section	Monitoring Required	Monitoring Performed
	conducted using Department approved methods and standards for determining total sulfur content of No. 2 fuel oil.	
2.9.4.6	The operating load of Unit TA-3-22 CT-1 specified by Condition 2.9.3.7 shall be monitored and recorded hourly during normal operations of that unit. Periods of startup and shutdown shall not be included in the hourly monitoring but shall be recorded separately.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.7	Compliance with NOx pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit) and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8. Compliance with NOx annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit).	The Combustion Turbine has not started operations. No monitoring performed.

Permit	Monitoring Required	<b>Monitoring Performed</b>
Section		
2.9.4.8	Compliance with CO pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.731 pounds CO per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit), and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8). Compliance with CO annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.0613 pounds CO per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit).	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.9	At least once each calendar quarter the permittee shall use the method specified in Conditions 2.9.4.7 and 2.9.4.8 to determine compliance of Unit TA-3-22 CT-1 with the hourly and annual emission limits specified in this permit.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.10	Visible emissions from stationary combustion equipment shall not equal or exceed an opacity of 20%. Use of pipeline quality natural gas fuel as defined in Conditions 2.9.3.1 and 2.9.3.4 constitutes compliance with	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

# Attachment A Asphalt Plant Opacity Reports

**Summary Table, Reports Attached** 

	Source	Date	Time	Opacity*
Jul	Top of Shaker	07/25/06	11:39 am	0
	Top of Baghouse Stack	07/25/06	11:47 am	0
	Conveyor Belt	07/26/06	8:46 am	0
Aug	Conveyor Belt	08/30/06	9:10 am	0
	Top of Shaker	08/30/06	9:20 am	0
Sep	Top of Shaker	09/11/06	11:00 am	0
Oct	Top of Shaker	10/04/06	8:44 am	0
	Top of Baghouse Stack	10/04/06	8:51 am	0
	Conveyor Belt	10/11/06	8:51 am	0
Nov	Top of Shaker	11/02/06	9:56 am	0
	Top of Baghouse Stack	11/02/06	10:02 am	0
	Conveyor Belt	11/02/06	10:08 am	0
Dec	Top of Shaker	12/12/06	9:15 am	0

<sup>\*</sup> Average opacity for the Asphalt Plant is the sum of the highest consecutive 24 readings divided by 24 (6 minutes of readings). The method is in accordance with 20.2.61 NMAC and condition 2.1.4.1 of the Los Alamos National Laboratory (LANL) Operating Permit P100M1.

Permit	Monitoring Required	Monitoring Performed
Section	<u> </u>	
	20.2.61 NMAC unless opacity exceeds 20%. At such time as No. 2 fuel oil as defined in Condition 2.9.3.1 is used, opacity shall be measured in accordance with the procedures at 40 CFR 60, Appendix A, Method 9. Opacity measurements shall continue on a quarterly basis per calendar year for each effected unit until such time as pipeline quality natural gas is used.	Delivery of pipeline quality natural gas is specified in the contract with the supplier (PNM).  Opacity measurements performed at the TA-03 Power Plant are provided in Attachment I.
2.9.4.11	Initial compliance tests are required on Unit TA-3-22 CT-1 for NOx and CO. These tests shall be conducted within sixty (60) days after the unit achieves the maximum normal production. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NOx, and Method 10 for CO contained in CFR Title 40, Part 60, Appendix A, and with the requirements of Subpart A, General Provisions, 60.8(f). Alternative test method(s) may be used if the Department approves the change. The permittee shall submit a testing protocol to the Department at least thirty (30) days prior to the test date, and provide notification to the Department at least thirty (30) days prior to the test date.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.12	The permittee shall comply with fuel sulfur monitoring requirements at 40 CFR 60.334(h) applicable to Unit TA-	The Combustion Turbine has not started operations. No Monitoring performed.

Permit Section	Monitoring Required	Monitoring Performed
	3-22 CT-1 by making the required demonstration which shows the fuel combusted in the turbine meets the definition of natural gas at 40 CFR 60.331(u).	

#### **Deviations**

Permit Section 4.2 requires that all instances of deviations from permit conditions, including emergencies, be clearly identified. Listed below are permit deviations this period:

1. Deviation from section 2.6 "Degreasers" of the LANL operating permit.

LANL operates a small 10" x 12" x 10" deep batch cold cleaning machine (degreaser) inside a fully enclosed glove box. The degreaser uses trichloroethylene. When registered and certified in 1998, it was understood that a 0.75 freeboard ratio could not be maintained. A compliance approach based on 40 CFR 63.462 Batch Cold Cleaning Machine work practice standards and 40 CFR 63.464 Alternative Standards was proposed and submitted to NMED. LANL is in the process of contacting EPA to request the use of an alternative measure.

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NO EMIS	150 16	Como					6	2	0	0	0	18				_	· · ·
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Environmental Improvement Division
RECORD OF VISUAL DETERMINATION OF OPACITY

Table Community										
PACH DIRECTION	•			•						
TURCE	OBSER	VATIO	N DAT	E	15	TART TIM	E.	STOP	TIME	
ASPHALT TRANT	٠.		-/1-					1		-
LOCATION	<del>- ₹</del>	4	44:	ALL	_رحم	1111	4-	413	064	VI
TA-60	1/	0	15	30	45	-	. 6	15	30	45
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Type of Source. Type of Control Equipment		1-	_	1 -		1-	1	1	1	
ASPHALT PROD. BAGHOUSE	1	0	10	0	0	13	1	1 1	1 1	ı
Describe Emusion Point (top of stack, etc.)		1				1	<del> </del>	1	·	
TOP OF SHAKER	2	1		0	1	. 14	}	1	( · )	•
Height Above Ground Level Preight Ralative to Observer	<del></del>	7	<del>  •</del>	<u> </u>	4		<del> </del>		<del></del>	
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25 YDS YORD WEST	1	$\mathcal{O}$ .	(2)	$\mathcal{O}$	0	18	· 1	<u></u> )	!	_
Courtiption of Plume Issap systems     Lotting   Trapping   Looping   Furnish   Coning   Furnishing	1	1					(-	<u> </u>		
Looping Dinning Diconing Disumipation	5	0	10	0	0	17	1 3	1.	1	
Errission Color Piumo Typo NO EMISSION	T -	1	-	-	_		<del>, , ,</del>		<del></del>	
NO EMISSION   Continuous   Fugitive   Intermitment	6		10		$\sim$	18 '	1	· · ·	1	-
Water Droptets Present?	<del> </del>	1		~	-4		<del></del>			
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12 TO 14" ABOVE Source	-	ليا			الن	. 20 -	1	_ 1		٠
Describe Bickground (L. Nue sky, from, etc.)	1	1	1	: 1				-	_	
CLEAR BLUE		· 1		·	- 1	. 21	· }	!	. 1.	•
Beckground Color Sky Conditions	<del>                                     </del>	<del></del>		<del>  </del>	<del></del>			<del></del> +	<del>f</del>	<u></u> -
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	12	· 1			. 1	, I	. [	T	T.	. 7
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METHOD 22 ALSO CONFIRMED NO		0,0				Man.	0	Max	(ک):	_
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EMISSIONS FROM BAGHOUSE.	·	~	(	-	_	9.	-//-	0%		1
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North Direction + OP OF						•	.,	•		
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- The state of the	Environ	nen tal lm	prove	ment	Divi	sion					
7	RECORD OF VISU	AL DET	ERM	INAT	ION	OF	OPACI	TY	•		
PUN _ SMOWER		OBSERV				1-		_		·.	
	PLANT	10	-4	-0	6		444			50	
TA-60		Min.	0	15	30	45	MIR	. 0	15	30	.45
Type of Source.  A SPHALT PLANT	TRAGHOUSE	1			<u></u>	-	13				·
Describe Emission Point (top of SDC),	etg.)	2		3	(		1,4				<del>  .                                   </del>
Helphs Above Ground Lavel	Hight Rolettee to Observer	+		<u>ر</u>	رب		, 14				
Distance from Observer	Direction from Observer	3	$\mathcal{O}$	<u>()</u> .	0	(2)	15			٠	<u> </u>
Description of Plume (states exit only)	WEST	4		0	0	0	, 18 .				
Looping Liferning L	Coning L. Furnigation	5 (		0	0	0	17				
Errission Color Pump Type  AUO SIMISSION Combin  Water Orosists Present	uous 🗆 Fugitive 🗀 Intermitment	6	$\dot{C}$		C		, 18 °	· . ]	•		
X-NO TES H YES, droples p	lume is Attached Described	7					19				
At what point in the plume was opacity of	BOVE SBURCE	8					20	_			
Cescribe Background (La. blue sky, been,	et C.		_		.		. 21		•	-+	$\dashv$
C. I.E.A.R.	Sity Conditions				-	-			$\overline{\cdot}$	<del>`  </del>	-
Ning 5 peed Wind Direction	(LEAR)	10	{	_	$\dashv$		22		<del>-</del>		]
notional Temperature   West Temperature	Relative Humidity	13		<u>.</u>			23		_	<u>·                                     </u>	· ·
COMMENTS	<u>" 29 : </u>	12 Average Op				.	24				
DURING THIS	Com Winner	· <u>.</u>		<u>ن ح</u>	<u>s</u>		Names of C		Aeadl Max	٠, ـ	2
TEST - NO EN	MISSIONS	Name		m primi HLH72	n D (	7 CC	7 Tittle	= E	16511	uier	7
WERE OBSERVE	D. ASPHALT	Signature					10		خ - :	24.	
HAULTROAD PAVED	MID SEPT. ZOOK!	Orgánization	54			6	artifica tie			7/	
Draw Arrow in	TOPOF			RTA	IT: P	lease i	ndlem t		$\overline{}$		ench:
1	SHAKER			.•	نہ	ببيخ					•
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SOURCE	<b>\_</b> \			. '	O	, ·	Sun	•			
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Obs	Position	1					rvations		•	. • -	1
			Signa	muna;	<u>.                                    </u>		· ·				.
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				· ·			••			
RECORD OF VISU						OPACI	TY	. `	• •	
NURCE ASPHALT PLANT	ORSER	VATIO	DAT			ART TIN	_		57	
A-60	1		15	30	45	1500	0	15	30	45
Type of Source . Type of Contra Equipment	Aita.	-	3			Min.	<del>                                     </del>		-	
BAGHOUSE STATE TO AGHOUSE	2		0		7		-	_	_	-
Halght Above Ground Level Halght Relative to Disserver	3				<u>ر</u>	14	-			-
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Description of Plume (spec as fi-enty)   Lording   Trapping   Looping   Ferning   Coning   Fumigation	<u>-</u>	<u>ب</u>				, 18 .	<u>:</u>			
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Environmental Improvement Division
RECORD OF VISUAL DETERMINATION OF OPACITY

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# Environmental Improvement Division RECORD OF VISUAL DETERMINATION OF OPACITY

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# FOR HOLEAGLOVEBOX EXHAUST IN-PLACE HEPA FILTER TESTING

# a Glovebox Exhaust FF-854 Data Sheet

Date:

LAS Calibration
Expiration Date: 0(-25- 67
(8.4.3)

Diluter Calibration

Expiration Date: 10-18-66

Dilution

Ratio: 2109

.4)		(8.4	.2)
	FF-85	Λ	

Date. (8	3.4.1) (8.4.3) (8.	4.4) (8.4.2)
Step Number	ltem	<b>FF-854</b> H-5-1450
9.1.12.2	Background concentration (part./cc)	3.531 X 10 part. concentration
9.1.12.3	Upstream concentration (part./cc)	2. 512 x 16 part concentration
9.1.12.4	Challenge aerosol concentration between 2.00 x10 <sup>6</sup> and 2.71 x	
9.1.12.5	1 <sup>st</sup> stage downstream concentration (part./cc)	2-835 Vio 2 part. concentration
9.1.12.6	2 <sup>nd</sup> /3 <sup>rd</sup> stage downstream concentration (part./cc)	3.53(+16 <sup>-3</sup> part. concentration
9.1.12.7	1 <sup>st</sup> stage Penetration ≤ 5.0 x10 <sup>-4</sup> (efficiency ≥ 99.95%)	1.128×10-4
9.1.12.8	$2^{\text{nd}}/3^{\text{rd}}$ stage Penetration $\leq 2.5 \times 10^{-7}$ (efficiency $\geq 99.999975\%$ )	2-812 ×10-9
9.1.13.2 9.1.13.3	Ensure all test port ball valves are closed; (FF-858-FH1, FF-859-FH1, TP-858-2, TP-855-2, TP-854-2, TP-859-2, TP-854-3, TP-855-3, TP-855-1, TP-854-1)	Initials Independent Verification

Valve	Required Position	Initials	Independent Verification
HV-854-J	Closed and Locked	W	1 June W
HV-854-G	Closed	MO	mmi
HV-854-H	Closed	Roca	mmi
HV-854-D	Closed	FO	May
HV-854-C	Closed	fro	M WI
HV-854-B	Closed	40	mms
HV-854-A	Closed	MO	MWI
HV-854-AA	Closed	MO	Man

Comments:			
Surveillance Personnel	Bond OC On-direction OC On-direction Signature OR INI Date	Signature	<u>7/20/08</u> Date

REC	Environme ORD OF VISUA	•					OPACIT	Y	, •	•	
EACH	-										
JURCE	· · · · · · · · · · · · · · · · · · ·	ORSERV	ATION	DATE		51	ART TIM		STOP	TIME	$\overline{}$
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Height Above Ground Level Haight Relative		·. ·		ا <i>ت</i>	0	0	· <del>`</del> :		. ;	;	
Distance from Observer Direction from	35 Foot	3	0	0	0	0	75		· -	<del></del>	
Description of Plume (stack exit enly)		. 4	0	0	0	0	, 16				
Looping   Farring   Coning	Fumigistion	6	0	0	0	0	17		•		
Erryssion Color Piume Type NO E M		6 -	ف	0	0	0	18	•		•	
Water Droplets Present? — / / / / SO-NO YES If YES, droples plume is Are	ached C Desached	7	• [			·	19			٠.	l
At what point in the plume was spacity determined?  10" Fe-12" NBOUL SOL		8					. 20	•	· -		
Describe Background (La. brue sky, trees, etc.)		9			:		. 21				
Background Color Sky Conditions		10					22				
Mind Speed Wind Direction (LA from North	h To South)	11		$\overline{\cdot}$			23				
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ASPHALT PLANT		DESERVATION DATE					JO OF	
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Type of Source.	Type of Control Equipment				-		•	

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North

I acknowledge receipt of a copy of these visible emissions observations.

Signature:

Trace:

Descriptions observations.

# Attachment B Beryllium HEPA Filter Tests Results

Summary Table, Reports Attached

Unit	Date	Pass/Fail
TA-55 (H5-1450) (FF-854)	7/19/2006	Pass
TA-55 (H5-1460) (FF-855)	7/19/2006	Pass

#### 300 AREA GLOVEBOX EXHAUST IN HEACE HEPA FILTER TESTING

		233
Date: 7 <u>- 1</u>	LAS Calibration Date: 01-25-07 Expiration Date: (8.4.3)  LAS Calibration Date: 01-25-07 Expiration Date: (8.4.3)	8-04 Dilution Ratio: 210 9 (8.4.2)
Step Number	ltem	<b>FF-855</b> H-5-1460
9.3.12.2	Background concentration (part./cc)	1.059 x 10 2 pag exponentration
9.3.12.3	Upstream concentration (part./cc)	2.267 VID 5 7-30.06
9.3.12.4	Challenge aerosol concentration between 2.00 x10 <sup>6</sup> and 2.71 x <sup>-1</sup>	
9.3.12.5	1 <sup>st</sup> stage downstream concentration (part./cc)	1.017 KIO part. concentration
9.3.12.6	2 <sup>nd</sup> /3 <sup>rd</sup> stage downstream concentration (part./cc)	\$ 884 XIO part. concentration
9.3.12.7	1 <sup>st</sup> stage Penetration ≤ 5.0 x10 <sup>-4</sup> (efficiency ≥ 99.95%)	4.484110-5
9.3.12.8	$2^{nd}/3^{rd}$ stage Penetration $\leq 2.5 \times 10^{-7}$ (efficiency $\geq 99.999975\%$ )	1.24c ×10-8
9.3.13.2 9.3.13.3	Ensure all test port ball valves are closed; (FF-858-FH1, FF-859-FH1, TP-858-2, TP-855-2, TP-854-2, TP-859-2, TP-854-3, TP-855-3, TP-855-1, TP-854-1)	Initials Independent Verification

Valve	Required Position	Initials	Independent Verification
HV-855-J	Closed and Locked	Now	PPO
HV-855-G	Closed	maz	100
HV-855-H	Closed	Mari	(MO
HV-855-D	Closed	Mahi	140
HV-855-C	Closed	mm	mo
HV-855-B	Closed	Muit	bo
HV-855-A	Closed	Muny	10
HV-854-AA	Closed	Wast	mo

Comments:				
		111		
Surveillance Personnel	Gont. L Out Signature	7 19 96 Supervisor	Signature	7/20/ <b>26</b> Date

Attachment C Boilers and Heaters Natural Gas Usage 2006 Small Boilers Data Entry / Gas Use

Month         Month         Fabrilia (MSCF)         TA-56 Boiler Gas Use (MSCF)         TA-56 Boiler Gas Use (MSCF)         TA-56 Boiler Gas Use (MSCF)         TA-68 Use (MSCF)         TA-60			•	Metered Boilers	rs				
MSCF)         (MSCF)         (MSCF)         Total Gas Use         Gas Use         12-Month Rolling all Bol all all all all all all all all all a			TA-55 Boi	ler Gas Use	ľ			Non-Metered	
Name         BHW-1B         BHW-2B         BS-1         (MSCF)         (MMSCF)         (MMSCF)           Y         2751         135         BS-1         69,973         69.97         66.84           Iny         591         0         59,582         59.58         58.74           Iny         57         0         58,189         58.74         58.74           Iny         57         1301         57         35,789         35,789         34.18           Iny         57         1010         21,932         21.93         20.18           Iny         57         910         1492         16,395         16,40         14.99           Iny         504         511         12,634         12.63         20.18         11.37           Inber         2196         6         13,180         13.18         10.73           Inber         297         89         23,222         23.22         22.59           Iber         3         2004         58,111         58.11         58.81           Iber         1         2223         1503         77.44         460.61         460.61         460.07         17.44			(M	SCF)	(MSCF)	Total G	as Use	Gas Use	12-Month Rolling Total fo
Y         2751         135         BS-1         (MSCF)         (MMSCF)			BHW-1B	l					O I I Carollina
2751         135         69,973         69.97         66.84         513.43           591         0         59,582         59.58         58.74         504.46           1630         0         58,182         58.79         58.74         504.46           1301         57         35,789         58.19         56.31         496.97           578         1010         21,932         21.93         20.10         478.29           578         910         1492         16,395         16.40         14.99         476.66           504         511         1263         11.37         474.00         476.66           297         89         23.222         23.22         22.59         480.04           1762         749         41.690         41.69         38.93         481.16           3         2004         58.11         58.11         58.81         490.61           11856         7694         79.92         77.44         490.61		Month	(B-602)	(B-603)	BS-1	(MSCF)	(MMSCF)	(MMSCF)	(MMSCE)
591         0         59,582         59,58         58,74         504,46           1630         0         58,189         58,19         58,19         58,19         58,19         58,19         56,31         496,97           1301         57         35,789         35,789         35,79         34,18         484,29           242         910         1492         16,395         16,40         14,99         475,96           504         511         12,634         12,63         11,37         474,00         476,66           297         89         23,222         23,22         22,59         480,04           1762         749         41,690         4169         38,93         481,16           3         2004         58,11         58,11         58,81         481,16           1         1856         79,916         79,92         77,44         490,61           1         1856         78,916         79,916         76,92         77,44         490,61		January	2751	135		69 973	60.07	70 33	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
1630         0         58,189         58,14         504,46           1301         57         58,189         56,31         496,97           578         1010         21,932         21,63         20,10         475,96           242         910         1492         16,395         16,40         14,99         475,96           504         511         12,634         12,63         11,37         476,00           297         89         23,222         23,22         22,59         480,04           1762         749         41,690         41,690         41,69         481,16           3         2004         58,111         58,11         55,85         480,04           11856         7694         2995         490,61         468.07         Permit Limit :		February	501			0000000	200	+0.00	013,43
1301         57         58,189         58,19         56,31         496,97           578         1010         21,932         21,93         20,10         475.96           242         910         1492         16,395         16,40         14,99         476.96           504         511         12,634         12,63         11,37         476.00           2196         6         13,180         13.18         10,73         476.00           1762         749         23,222         23.22         22.59         480.04           3         2004         58,111         58.11         56.85         480.04           11856         7694         2995         490,613         490.61         468.07         Permit Limit :		March	1830			29,307	39.38	58.74	504.46
578         35,789         36,79         34,18         484,29           578         1010         21,932         21.93         20.10         475.96           242         910         1492         16,395         16.40         14.99         476.66           504         511         12,634         12.63         11.37         476.00           297         89         23,222         23.22         22.59         480.04           1762         749         41,690         41.69         38.93         481.16           3         2004         58,111         58.11         55.85         484.30           11856         7694         2995         490,613         490.61         Permit Limit :		Anril	4204			58,189	58.19	56.31	496.97
578         1010         21,932         21.93         20.10         475.95           242         910         1492         16,395         16.40         14.99         476.66           504         511         12,634         12.63         11.37         476.66           297         89         23,222         23.22         22.59         480.04           1762         749         41,690         4169         38.93         481.16           3         2004         58,111         58,11         55.85         484.30           1 1856         7694         2995         490.61         468.07         Permit Limit :	M	NA.	1301	5/		35,789	35.79	34.18	OC VBV
242         910         1492         1,35         20,10         475.96           504         511         12,634         16,40         14,99         476.66           2196         6         13,180         13,18         10,73         474.00           1762         749         23,222         23,22         22,59         480.04           3         2004         41,690         41,69         38,93         481.16           1185         763         78,11         58,11         56,85         484.30           11856         7694         2895         490,61         468.07         Permit Limit :	11	iviay	578	1010		21 932	21.03	0 7 00	67.404
504         511         14.95         16.40         14.99         476.66           2196         6         12.634         12.63         11.37         474.00           297         89         23,222         23.22         22.59         480.04           1762         749         41,690         41.69         38.93         481.16           3         2004         58,111         58.11         55.85         484.30           11856         7694         2995         490,613         490.61         468.07         Permit Limit :	1=	June	242	010	4400	40.000	51.33	20.1U	475.96
204         511         12,634         12.63         11.37         474.00           2196         6         13,180         13.18         10.73         473.05           297         89         23,222         23.22         22.59         480.04           1762         749         41,690         41,69         38,93         481.16           3         2004         58,111         58,11         55,85         484.30           1 1856         7694         2895         490,613         490.61         468.07         Permit Limit :	E	Tilky			7651	C65'Q1	16.40	14.99	476.66
2196         6         13,180         13.18         10,73         474,00           297         89         23,222         23.22         22.59         480.04           1762         749         41,690         41.69         38.93         481.16           3         2004         58,111         58.11         55.85         484.30           11856         7694         2895         490,613         490.61         468.07         Permit Limit :	?]	Suly	504	511		12.634	12.63	11.37	00 14.1
297         89         23,222         23,222         23,222         23,222         22,59         480.04           1762         749         41,690         41.69         38,93         481.16           3         2004         58,111         58.11         55.85         484.30           11856         7694         2895         490,613         490.61         468.07         Permit Limit :	EC	August	2196	9		12 100	2 6 6 7	20.1	474.00
2.5.7         0.9         23.222         23.22         23.25         480.04           1762         749         41,690         41.69         38.93         481.16           3         2004         58,111         58.11         55.85         484.30           1 1856         7694         2895         490,613         490.61         468.07         Permit Limit :	]	September	207	00		13,100	13.18	10./3	473.05
1 DZ         749         41,690         41.69         38.93         481.16           3         2004         58,111         58.11         55.85         484.30           1         2223         1503         79,916         79.92         77.44         490.61           11856         7694         2995         490,613         490.61         468.07         Permit Limit :		Ortober	122	60		23,222	23.22	22.59	480,04
3         2004         58,111         58.11         55,85         484.30           1         2223         1503         79,916         79.92         77.44         490.61           11856         7694         2995         490,613         490.61         468.07         Permit Limit		N. C.	70/1	/49		41,690	41.69	38.93	481 16
1 2223   1503   79,916   79,92   77.44   490.61   11856   7694   2995   490,613   490.61   468.07   Permit Limit :		November	က	2004		58 111	58 11	20 00	01.101
11856 7694 2995 490,613 490.61 468.07 Permit Limit :		December	-	2223	1503	240.04	700.	33.03	484.30
		TIOTAI	X1825		503	13,910	78.87	77.44	490.61
			000	1094	2995	490,613	490.61		Permit Limit: 870

	20.5	U.O.I MMSCI/MMBtu/hr	0.70 MMscf/MMBtii/hr		1.52 MMscf/MMBtu/hr
308.7 MMBTU/hr					
2006 Non Metered Boiler Pool Capacity:	Estimated Gas-Use per MMBtri rating Jan. ling:		Estimated Gas-Use per MMBtu rating July-Dec:	Hotimotor Contraction	Estimated Gas-Use per MIMBIU - Annual

Definitions: MMSCF

MMSCF= Million Standard Cubic Feet MSCF = Thousand Standard Cubic Feet

Metered/Non-metered: Metered bollers are those units that have unit specific volumetric flow meters for the boller(s) only.

Insignifican Lab Wide **253** 206.079 177.971 384.050 Various Units TA-16-1484 Plant 5 12,700 19.256 10.333 8.924 024 TA-59-1 BHW-2 5.335 3.749 8.090 021 Gas Use Non-Metered (MMSCF) TA-59-1 BHW-1 3.749 5.335 8.090 020 TA-53-365 BHW-2 7.115 5.788 10.787 019 TA-53-365 BHW-1 7.115 5.788 4.999 10.787 018 TA-48-1 7.140 10.826 5.809 BS-6 017 TA-48-1 BS-2 5.335 3.749 8.090 016 015 TA-48-1 5.336 4.342 3.749 8.091 BS-1 Calculated Gas Use-Jan-June Calculated Gas Use-July-Dec Calculated Gas Use-Annual Design Rate (MMBTU/hr) AIRS Stack # Location: ≅

Attachment D
Carpenter Shop Hours of Operation

# 2006 TA-3 & TA-15 Carpenter Shops

TA-3	Data Entry
	Hours of Operation <sup>1</sup>
Month	TA-3
January	15.5
February	19
March	22.5
April	26.5
May	14,25
June	
6 mo. Total	108.75

Data Entry Hours of Operation

**TA-3** 

TA-3

Month

12.25

22.75

September

July August October

14.1

77.60

6 mo. Total:

November

December

TA-15	Data Entry
	Hours of Operation <sup>1</sup>
Month	TA-15
January	10.2
February	19.8
March	29.2
April	13.3
May	13.3
June	16.0
6 mo. Total	101.8

TA-15	Data Entry
	Hours of Operation <sup>1</sup>
Month	TA-15
July	29.8
August	21.2
September	1.7
October	15.0
November	14.0
December	10.5
6 mo. Total:	97.6

Saws, drills, shaping and sanding equipment shall each not operate in excess of 4368 hours per year.

## Reference

 Based on information provided monthly by the shop foreman

from each shop.

> Attachment E Degreaser Solvent Usage

#### **Historical Solvent Usage Data**

The usage information for UT Bath degreaser from Jul-01-2006 through Dec-31-2006 is displayed below.

#### **General Degreaser Information**

Degreaser	Type	TA	S	olvent		
UT Bath	Cold Batch	55	Trichl	oroethylene		
Date	Initial Solvent	Volu Add	me	Level Added	Volume Removed	Level Removed
Measured	Level	(lite		(inches)	(liters)	(inches)

Date Measured	Initial Solvent Level (inches)	Volume Added (liters)	Level Added (inches)	Volume Removed (liters)	Level Removed (inches)
Jul-21-2006	7.5	0.00	0.00	0.0	0.0
Aug-22-2006	6.5	2.94	1.50	0.0	0.0
Sep-18-2006	8.0	0.00	0.00	0.0	0.0
Oct-25-2006	7.5	0.00	0.00	0.0	0.0
Nov-02-2006	7.5	14.35	7.30	14.74	7.5
Nov-06-2006	7.3	0.98	0.50	0.0	0.0
Dec-22-2006	7.0	1.96	1.00	0.0	0.0

Attachment F
Internal Combustion Generator Hours of Operation

Birgg         Menufacturer         MODEL         KW         Fuel Type         Reading Date of 20 and half 05 and half									First 6 Mc	First 6 Month Readings 2006	gs 2006	Second 6	Second 6 Month Readings 2006	ngs 2006
2.20         Chanel Sane         (2000 Special Special Style)         155         Chanel Sane         (2000 Special Special Style)         155         Chanel Special Special Style)         155         Chanel Special Special Style)         155         Chanel Special Style)         155	4	Bida	Manufacturer	MODE	Kið/	Enal Time	Reading Dafe 2nd half 05	Reading 2nd half 05	6 Month Reading Date	Dooding	Hours Run	12 Month Reading Date	e de la constante de la consta	Hours Run
442         Chemine         45         Nixt. Gain         Nov. Gis         48.0         Approx         47.2         47.7         Operation         47.1           442         Chemine         50PERSORIT         45         Nixt. Gain         Nov. Gis         47.0         Decide         47.1         Decide         47.1           443         Chemine         10 Convenion         50PERSORITY         20         Decide         47.1         Decide         47.1         Decide         47.1           1975         Convenion         50PERSORITY         12.0         Convenion         12.0         Conv	F	40	Onan Sons	1500DVE15R31374B	150	Diesel	Nov-05	246.0	Apr-06	246.0	0.0	Dec-06	246	
440 Committee         Committee         150 Committee         150 Committee         150 Committee         151 Committe	8	223	Onan Sons		45	Nat. Gas	Nov-05	469.1	Apr-06	473.2	4.1	Dec-06	478	4.8
440 Controllering         Chica Servici (1976)         510 Desired         Drace/Servici (1976)         42.9 Apr/line         617 17.8         Desired         60.5         51.7           1440 Controllering         DFEC-SESARIOT         17.50 Outmins         Drace Servici (1976)         17.9         17.0         Outmins         Desired (1976)         17.0         Outmins         Desired (1976)         17.0         Outmins         Desired (1976)         17.0         Outmins         Desired (1976)         17.0	33	440	Cummins	500FDR5051	150	Diesel	Dec-05			114.5	16.5	Dec-06	121.8	7.3
(1) Fig. Charmers         Charmers         50 Color         Cheel         Doc. Cheel         70.50         May-OR         36.5         36.1         Dec. OR         37.1           4/448 Charmers         Chenal Charmers         10.00         Cheel         Nov. Cheel         79.0         17.2         20.0         0.00         20.0           89.0         Charmers         Chenal Charmers         10.00         Dec. Cheel         70.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0 <td></td> <td>440</td> <td>Cummins</td> <td>DFGA-5005210</td> <td>200</td> <td>Diesel</td> <td>Dec-05</td> <td></td> <td></td> <td>60.7</td> <td>17.8</td> <td>90-sec</td> <td>69.5</td> <td>8.8</td>		440	Cummins	DFGA-5005210	200	Diesel	Dec-05			60.7	17.8	90-sec	69.5	8.8
1444 Committee         OFF-CASSAGOT         OFF-CASSAGO	e	1076	Cummins	DGBB-5601289	35	Diesel	Dec-05	44,5		80.6		Dec-06	101.2	20.6
4783         Channelism         700         Diesed         Nov-55         278.0         Appr. 60         50.0         Diesed         Nov-55         278.0         Appr. 60         50.0         Diesed         Nov-55         278.0         Appr. 60         50.0         Diesed         200.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0         20.0 <td>e  </td> <td>1404</td> <td>Cummins</td> <td>DFLC-5554001</td> <td>1250</td> <td>Diesel</td> <td>Dec-05</td> <td>79.0</td> <td></td> <td>112.9</td> <td></td> <td>Dec-06</td> <td>287.9</td> <td>175</td>	e	1404	Cummins	DFLC-5554001	1250	Diesel	Dec-05	79.0		112.9		Dec-06	287.9	175
9420.         Charmines         KirAdo-Ozz         1100         Diesed         100-Diesed         23.9         53.1         63.1         Diesede         23.9           137.4         Johns Sens         1912AL         App. 0         200-Diesed         110.0         Diesede         110.0         200-Diesed         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0         110.0<		1498	Caterpillar		900	Diesel	Nov-05			286.0		Dec-06	303	17
13.1         Omerone         11.0         May-16         6.53         Die-OB         2.88           13.1         Omerone         610-18         New 10         New 10         Die-OB         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00 </td <td>7</td> <td>2322</td> <td>Onan Sons</td> <td></td> <td>80</td> <td>Diesel</td> <td>Nov-05</td> <td></td> <td></td> <td>284.4</td> <td></td> <td>90-0eC</td> <td>329.1</td> <td>44.7</td>	7	2322	Onan Sons		80	Diesel	Nov-05			284.4		90-0eC	329.1	44.7
3.1         Americans         New-Color         18.0.         Apr. 66         10.0.         Che-Color         10.0.           3.15         Commissions         30.0EA/A-RAR         7.50         Diesed         New-Color         11.22         1.22         1.22         1.22         1.0.         Che-Color         11.32           3.15         Chenellos         1.15         Diesed         New-Color         88.73         Apr. 66         46.91         1.13         Diese         11.32           3.15         Chenellos         1.15         Diesed         New-Color         46.93         1.14         Diese         11.02         1.14         Diese         11.02         1.0.         Diese         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.         1.0.	2 4	1374	7-	KTA50-G2	1100	Diesel	Dec-05			63.6		Dec-06	226.3	162.7
3.13         Chairal States         TASA (Marsian)         ATA (Marsian)         Pre-Size (Marsian)         Pre-Cip (Marsia	2 0	470	7	50ENA	99	Nat. Gas	Nov-05			1018.6		Dec-06	1039.4	20.8
3-37         Camenalisation         ACMOND-VAARA         750         Disseled         Nov-OS         387.8         App-OS         484.9         11.3         Discole         81.9           Year         Camenalisation         (ACMOND-VAARA)         750         Disseled         Nov-OS         28.45.6         App-OS         28.67.7         28.7.7         Discole         91.87.5           Year         Claiman State         1500GFA         175         Dissele         Nov-OS         18.87.6         App-OS         28.83         Discole         36.93           Year         Claiman         350         Dissele         Nov-OS         18.87.6         11.43         Discole         18.17           151         Caberalism         1800CEA         23.90         Dissele         Nov-OS         18.87.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6         18.97.6	2 10	15.	Onan Sons	275DFML29807N	275	Diesel	Dec-05			172.2		Dec-06	173,4	12
Year Ontal Sorts         H1750DSG15         175         Deseil         Nov.65         485.5         Apr.06         287.7         287.7         Dec.06         487.5           Year Ontal Sorts         H1750DSG15         175         Deseil         Nov.65         1874.1         Apr.06         286.4         ESB.7         Dec.06         287.4         S           Year Olman Sorts         H1750DSG15         175         Deseil         Nov.65         1878.1         Apr.06         51.5         Dec.06         287.4         S           20         Contal Sorts         1800CFA         20         Dieseil         Nov.65         187.8         May.06         284.0         0.0         Dec.06         287.4           20         Chelesia         Nov.65         284.2         May.06         284.0         0.0         Dec.06         287.4           20         Chelesia         Nov.65         115.3         May.06         284.0         0.0         Dec.06         287.4           20         Dec.06         Diesei         Nov.65         115.3         May.06         284.0         0.0         Dec.06         287.4           20         Dec.06         Diesei         Nov.65         116.3         May.06	3 2	500	Onan Sons	750.0DFV-4XR	750	Diesei	Nov-05			849.1		Dec-06	851.6	2.5
Yard Olmal Sons         H1750NSG15         175         Diesel         Nov-d6         2934,0         Apr-d6         25964         628.3         Diec-06         3054 A           Yard Olmanisons         (4500GFA         155         Diesel         Nov-d6         (482.8         Apr-d6         (155.8         Diec-06         76154           2.0         Kohela         150         Diesel         Nov-d6         915.2         May-06         14.8         Diec-06         14.9           2.0         Kohela         Nov-d5         915.2         May-06         76.9         1.5         Diec-06         19.9           2.0         Kohela         Nov-d5         915.2         May-06         76.9         1.5         Diec-06         19.9           2.0         Morela         Nov-d5         915.2         May-06         76.9         1.0         Diec-06         19.9           2.0         Morela         Nov-d5         915.2         May-06         76.9         19.9         19.9         19.9           2.0         Diesel         Nov-d5         915.2         May-06         11.2         19.0         19.9         19.9         19.9         19.9         19.0         19.0         19.9         19.	1 8	/60	Caterpillar		125	Diesel	Nov-05			467.9		Dec-06	497.5	29.6
Yeard Oliminis Olimonical Machine Monosity of Continuinis Olimonical Machine Monosity Olimonical Monosi	3 5	o aic	Onan Sons	H1750DSG15	175	Diesel	Nov-05			2962.7		Dec-06	3054.4	91.7
7487         Columnius         1500 Obeset         Nov-05         1083.5         Apr-06         1145.0         61.5         Doe-06         1141           20         Kchler         XOZ25         Diesel         Nov-165         294.40         Nap-06         116.7         1.5         Doe-06         244           216         Calepullar         XOZ25         Diesel         Nov-165         294.40         Nap-06         204.4         0.0         Doe-06         244           216         Charle Sons         1100/ROZD         160         Diesel         Nov-165         294.40         Nap-06         204.6         0.0         Doe-06         244           2         Oran Sons         1100/ROZDB         110         Diesel         Nov-05         143.7         Ap-06         206.0         Doe-06         244           2         Oran Sons         1100/ROZDB         110         Diesel         Nov-05         142.7         Ap-06         206.0         Doe-06         87.2           3.5         Oran Sons         1100/ROZDB         110         Diesel         Nov-05         142.7         Ap-06         50.0         Doe-06         87.2           3.5         Oran Sons         110         Diesel <td>3 8</td> <td>rard</td> <td>Onan Sons</td> <td></td> <td>320</td> <td>Diesel</td> <td>Nov-05</td> <td></td> <td></td> <td>2506.4</td> <td>628.3</td> <td>Dec-06</td> <td>2619.4</td> <td>113</td>	3 8	rard	Onan Sons		320	Diesel	Nov-05			2506.4	628.3	Dec-06	2619.4	113
2.00         Krohler         30 Diesel         Nov-56         915.2         May-06         916.7         1.5         Die-06         919           2.00         Krohler         130ROZ         223         Diesel         Nov-56         2944.0         May-06         2944.0         0.0         Die-06         9.3           2.00         Krohler         1600ROZD         1630         Diesel         Nov-65         2944.0         May-06         4.0         0.0         Die-06         9.3           2.01         Colar Sons         100CEG         50         Diesel         Nov-65         115.3         May-06         764.3         0.0         Die-06         9.3           2.0         Colar Sons         100CEG         50         Diesel         Nov-65         115.3         May-06         29.4         0.0         Die-06         9.5           3.5         Charl Sons         10CEG         50         Diesel         Nov-65         37.4         Apr-06         29.4         50         Die-06         115.3         115.3         Die-06         115.3         115.3         115.3         115.3         115.3         115.3         115.3         115.3         115.3         115.3         115.3         115.3 <td>2 5</td> <td>rard</td> <td>Cummins</td> <td>150DGFA</td> <td>150</td> <td>Diesel</td> <td>Nov-05</td> <td></td> <td></td> <td>1145.0</td> <td>61.5</td> <td>Dec-06</td> <td>1147</td> <td>2</td>	2 5	rard	Cummins	150DGFA	150	Diesel	Nov-05			1145.0	61.5	Dec-06	1147	2
151         Cale pulling         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2 5	9	Konler	30R0Z	30	Diesel	Nov-05			916.7		Dec-06	616	2.3
204 Kohler         Robor CAD         Fond         May-06         4.9         May-06         76.4         0.0         Dec-06         76.3           204 Kohler         100m Soms         300Cs10AA         100 Desent         Nov-05         115.3         May-06         115.3         0.0         Dec-06         76.3.1           2 Oran Soms         300Cs10AA         100         Desent         Nov-05         38.7         Apr-06         32.6         Dec-06         115.3           3.5         Oran Soms         300DECB         100         Desent         Nov-05         38.7         Apr-06         32.6         Dec-06         115.3           4.5         Oran Soms         300DECB         300         Desent         Nov-05         34.7         Apr-06         23.6         Dec-06         165.3           4.5         Oran Soms         DFCB-5740130         300         Desent         Nov-05         34.7         Apr-06         23.6         Dec-06         165.3           4.5         Oran Soms         DFCB-5740130         300         Desent         Nov-05         42.7         Apr-06         23.6         Dec-06         165.3           1.6         Oran Soms         Desent         Nov-05         42.7 <td>2</td> <td>151</td> <td>Caterpillar</td> <td>XQ225</td> <td>225</td> <td>Dieset</td> <td>Nov-05</td> <td></td> <td></td> <td>2944.0</td> <td></td> <td>Dec-06</td> <td>2944</td> <td></td>	2	151	Caterpillar	XQ225	225	Dieset	Nov-05			2944.0		Dec-06	2944	
Point Ones Sons         RODGGIOA         RO         Diese         Nov-05         7643.1         May-06         7764.3         0.0         Dec-06         7643.1           2         Commissors         100DCDBB         100         Diese         Nov-05         356.7         Apr-06         532.1         5.4         Dec-06         376.3           3.5         Commissors         300DEFCBB         150         Diese         Nov-05         366.7         Apr-06         530.2         2.3         Dec-06         378.3           4.5         Ones Sons         300DEFCBB         300         Diese         Nov-05         74.2         Apr-06         530.2         2.3         Dec-06         873.8           3.5         Cummissors         DECBST40130         300         Diese         Nov-05         74.7         Apr-06         873.6         Dec-06         482.6           3.5         Cummissors         300DEFCBST40130         300         Diese         Nov-05         32.1         Apr-06         87.8         Dec-06         482.1           3.5         Cummissors         35ERNAD         60         Nat. Gas         Nov-05         47.2         Apr-06         13.2         Dec-06         482.1	Σ Σ	208	Kohler	1600ROZD	1600	Diesel	Nov-05	4.9		4.9		Dec-06	6	4 4
2         Ohan Sorns         1000CDB         1153         May-06         1153         0.0         Dec-06         115.3           1         Cummins         4E13.9-GC         30         Diesel         Nov-05         115.3         Apr-06         382.1         5.4         Dec-06         115.3           3.5         Onan Sons         300DEFCB         30         Diesel         Nov-05         506.6         Apr-06         323.6         Dec-06         562.6           4.5         Onan Sons         300DEFCB         300         Diesel         Nov-05         784.6         Apr-06         823.6         Apr-06         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6         60.6		Point	Onan Sons	80DG10A	80	Diesel	Nov-05	7643.1		7643.1		Dec-06	7643 1	
1         Cummins         4B13.9-GC         50         Diesel         Nov-05         356.7         Ap-06         362.1         5.4         Dec-06         369.4           335         Onan Sons         300DEFCB         300         Diesel         Nov-05         506.6         Ap-06         530.2         23.6         Dec-06         862.6           45         Onan Sons         DFCB-5740130         300         Diesel         Nov-05         34.7         May-06         2.9         Dec-06         46.7           45         Onan Sons         DFCB-5740130         300         Diesel         Nov-05         34.7         Ap-06         480.4         5.0         Dec-06         485.1           184         Onan Sons         1550         Diesel         Nov-05         47.4         Ap-06         480.4         5.0         Dec-06         485.1           1         Onan Sons         1500         Diesel         Nov-05         47.4         Ap-06         480.4         5.0         Dec-06         485.1           1         Onan Sons         1500         Diesel         Nov-05         47.4         Ap-06         48.3         Dec-06         485.1           1         Onan Sons         1250	32	2	Onan Sons	100DGDB	100	Dieset	Dec-05	115.3		115.3		Dec-06	1153	
335         Onan Sons         1 Onan Sons         150         Diesel         Nov-05         506.6         Apr-06         530.2         23.6         Dac-06         87.8           335         Onan Sons         3000EFCBB         300         Diesel         Nov-05         74.6         May-06         82.6         Dec-06         873.8           37         Cummins         660FDR3058FF         500         Diesel         Nov-05         37.1         Apr-06         480.4         5.0         Dec-06         485.1           184         Onan Sons         75ENAD         1250         Diesel         Nov-05         92.1         Apr-06         480.4         Dec-06         485.1           184         Onan Sons         1540553679         1250         Diesel         Nov-05         92.1         Apr-06         440.4         10.0         Dec-06         485.1           1 Chan Sons         1940563879         1250         Diesel         Nov-05         42.7         Apr-06         4440.1         0.1         Dec-06         4440.1           1 Chan Sons         180         Diesel         Nov-05         444.0         112.1         20.0         Dec-06         4440.1           2 Chain Sons         1250	<u>e</u>	-	Cummins	4BT3.9-GC	20	Diesel	Nov-05	356.7		362.1		Dec-06	369.4	7.3
335         Onan Sons         300DEFCB         300         Diesel         Nov-05         784.6         May-06         824.6         4.00         Dec-06         873.8           45         Oran Sons         DFCBSTAG130         300         Diesel         Nov-05         343.7         Apr-06         4.00         Dec-06         465.1           184         Oran Sons         DFCBSTAG130         300         Diesel         Nov-05         343.7         Apr-06         140.1         5.00         Dec-06         465.1           184         Oran Sons         GENDRSOSBFF         500         Diesel         Nov-05         142.7         Apr-06         148.1         5.4         Dec-06         1465.1           1 Onal Sons         L940563879         1250         Diesel         Nov-05         142.7         Apr-06         148.1         5.4         Dec-06         1465.1           2         Onal Sons         L940563879         100         Diesel         Nov-05         142.7         Apr-06         148.1         5.4         Dec-06         1465.1           2         Onal Sons         100         Diesel         Nov-05         144.0         1         0         1440.1         1           3	<u>ε</u>	-	Onan Sons		150	Diesel	Nov-05	506.6		530.2		Dec-06	562.6	32.4
45         Onen Sons         DFCB-5740130         300         Diesel         Nov-05         343.7         May-06         2.9         2.9         Dec-06         465.1           37         Cummins         680FDR508FF         500         Diesel         Nov-05         475.4         Apr-06         480.4         5.0         Dec-06         485.1           188         Onan Sons         75ENAD         1250         Diesel         Nov-05         47.1         Apr-06         410.1         5.0         Dec-06         485.1           1         Onan Sons         L340563879         1250         Diesel         Nov-05         142.7         Apr-06         110.3         43.8         Dec-06         143.3           A         Cummins         60         Nat. Gas         Nov-05         184.3         May-06         194.3         Dec-06         1440.1           A         Cummins         60         Diesel         Nov-05         184.3         May-06         194.3         Dec-06         194.3           A         Cummins         110         Nat. Gas         Nov-05         184.3         May-06         194.3         Dec-06         194.3           A         Onan Sons         1250 Diesel         <	9	335	Onan Sons	300DEFCB	300	Diesel	Nov-05	784.6		824.6		Dec-06	873.8	7.07
37         Cummins         680FDR5059FF         500         Diesel         Nov-05         475.4         Apr-06         480.4         50         Dec-06         485.1           184         Oran Sons         15ENAD         60         Nat. Gas         Nov-05         92.1         Apr-06         112.1         20.0         Dec-06         153.6           1 8         Oran Sons         L94053879         1250         Diesel         Nov-05         142.7         Apr-06         148.1         5.4         Dec-06         149           2         Kalo Eng.         Kamen         50         Diesel         Nov-05         149.0         Nov-06         1410.9         43.8         Dec-06         1469.1           M         Cummins         60         Diesel         Nov-05         289.2         Apr-06         4440.1         0.1         Dec-06         4440.1           M         Cummins         90         Diesel         Nov-05         289.2         Apr-06         581.6         13.3         Dec-06         4440.1           A         Colminis         1250         Diesel         Nov-05         289.2         Apr-06         581.6         13.3         Dec-06         581.6           A	<u>∞</u>	45	Onan Sons	DFCB-5740130	300	Diesel	Nov-05	343.7		2.9		Dec-06	16	13.1
184         Onen Sons         75ENAD         60         Nat. Gas         Nov.05         92.1         Apr-06         112.1         20.0         Dec.06         153.6           188         Oran Sons         L940563879         1250         Diesel         Nov-05         142.7         Apr-06         110.9         43.8         Dec.06         149.3           2         Kanen         50         Diesel         Nov-05         194.3         Apr-06         110.9         43.8         Dec.06         149.3           A         Cummiens         60         Diesel         Nov-05         194.3         0.0         Dec.06         194.3           M         Cummiens         12.5         Nat. Gas         Nov-05         194.3         0.0         Dec.06         194.3           M         Oran Sons         12.5         Nat. Gas         Nov-05         289.2         Apr-06         282.5         13.3         Dec.06         71.3           A         Onympian         95M-07874-F         500         Diesel         Nov-05         289.2         Apr-06         65.7         3.3         Dec.06         71.3           8         Deroit         10         Diesel         Nov-05         782.9	당	37	Cummins	680FDR5059FF	200	Diesel	Nov-05			480.4		Dacons	485.4	7.0
188         Onan Sons         L940563879         1250         Diesel         Nov-05         142.7         Ap-06         148.1         5.4         Dec-06         146.3           1         Onan Sons         (a)         Nat. Gas         Nov-05         196.7.1         Ap-06         1110.9         43.8         Dec-06         1165.4           M         Cummins         60         Diesel         Nov-05         184.3         May-06         194.3         0.0         Dec-06         194.3           M         Cummins         60         Diesel         Nov-05         281.5         May-06         440.1         0.1         Dec-06         581.6           A         Cummins         95M-07874-F         500         Diesel         Nov-05         289.2         Ap-06         60.7         1.0         Dec-06         891.6           5         Lumins         1650         Diesel         Nov-05         289.2         Ap-06         60.7         1.1         Ap-06         805.2         1.1         Ap-06         805.7         3.3         Dec-06         71.3           8         Detroit         600         Diesel         Dec-05         78.1         Ap-06         70.2         1.1         Ap-06<	Š	184	Onan Sons	75ENAD	9	Nat. Gas	Nov-05			112.1		Dec-06	153.6	415
1         Onen Sons         Katio Eng.         Kamen         60         Nat. Gas         Nov-05         194.3         Apr-06         110.9         43.8         Dec-06         1165.4           M         Cummins         Katio Eng.         Katio Eng.         Katio Eng.         Nov-05         194.3         May-06         194.3         0.0         Dec-06         194.3           M         Cummins         60         Diesel         Nov-05         581.5         May-06         581.6         0.1         Dec-06         4440.1           41         Olympian         95M-07874-F         500         Diesel         Nov-05         282.2         Apr-06         581.5         0.1         Dec-06         581.6           5         Nop-10sel         Nov-05         28.2         Apr-06         65.7         3.3         Dec-06         581.6           8         Detroit         Nop-05         62.4         Apr-06         79.2         11.3         Dec-06         58.6           8         Detroit         600         Diesel         Dec-05         62.4         Apr-06         73.2         11.3         Dec-06         58.6           28         Oran Sons         1465         200         Diesel	 S	188	Onan Sons	L940563879	1250	Diesel	Nov-05	142,7		148.1	5.4	Dec-06	149	60
2         Kato Eng.         Kaman         50         Diesel         Nov-05         194.3         May-06         194.3         0.0         Dec-06         194.3           M         Cummins         60         Diesel         Nov-05         4440.0         May-06         4440.1         0.1         Dec-06         4440.1           412         Onan Sons         12.5         Nat. Gas         Nov-05         581.5         May-06         581.6         0.1         Dec-06         581.6           5         Apr. Dec. Dec. Dec. Dec. Dec. Dec. Dec. Dec	53		Onan Sons		09	Nat. Gas	Nov-05	1067.1		1110.9		Dec-06	1165,4	54.5
M         Cummins         60         Diesel         Nov-05         4440.0         May-06         4440.1         0.1         Dec-06         4440.1           M         Onan Sons         12.5         Nat. Gas         Nov-05         581.5         May-06         581.6         0.1         Dec-06         581.6           412         Olympian         95M-07874-F         500         Diesel         Nov-05         269.2         Apr-06         282.5         13.3         Dec-06         282.5           5         Amalonis         SAM-07874-F         500         Diesel         Nov-05         62.4         Apr-06         65.7         3.3         Dec-06         292           8         Detroit         Not Gas         Dec-05         782.9         Apr-06         65.7         3.3         Dec-06         71.3           8         Detroit         Dec-05         782.9         Apr-06         73.2         11.3         Dec-06         86.3         71.3           14         Oran Sons         1465         Dec-05         11.9         Apr-06         72.2         11.3         Dec-06         87.6         72.2           14         Oran Sons         DEB-4963414         400         Diesel	23	2	Kato Eng.	Kaman	20	Diesel	Nov-05			194.3		Dec-06	194,3	0
M         Onan Sons         12.5         Nat. Gas         Nov.05         581.5         May-06         581.6         0.1         Dec-06         581.6           412         Olympian         95M-07874-F         500         Diesel         Nov.05         269.2         Apr-06         282.5         13.3         Dec-06         292           5         Locolit         100         Nat. Gas         Dec-05         62.4         Apr-06         65.7         3.3         Dec-06         71.3           8         Detroit         600         Diesel         Dec-05         11.9         May-06         732.2         9.3         Dec-06         71.3           28         Detroit         600         Diesel         Dec-05         11.9         May-06         23.2         11.3         Dec-06         52.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6	2	Σ	Cummins		09	Diesel	Nov-05	4440.0	W	4440.1	0.1	Dec-06	4440.1	0
412         Olympian         95M-07874-F         500         Diesel         Nov-05         269.2         Apr-06         282.5         13.3         Dec-06         292           5         betroit         100         Nat. Gas         Dec-05         62.4         Apr-06         65.7         3.3         Dec-06         71.3           8         Detroit         600         Diesel         Dec-05         782.9         May-06         732.2         9.3         Dec-06         71.3         71.3           28         Detroit         600         Diesel         Dec-05         11.9         May-06         23.2         11.3         Dec-06         52.6         22.0         23.2         11.3         Dec-06         52.6         22.0         23.2         11.3         Dec-06         52.6         22.0         23.2         11.3         Dec-06         52.6         27.2         27.1         Dec-06         52.6         27.2         27.1         Dec-06         52.6         27.2         27.1         Dec-06         57.5         27.2         27.1         Dec-06         57.5         27.2         27.1         Dec-06         57.5         27.2         27.2         27.2         27.2         27.2         27.2	:2	Σ	Onan Sons		12.5	Nat. Gas	Nov-05	581.5		581.6		Dec-06	581.6	0
5         Detroit         Nat. Gas         Dec-05         62.4         Apr-06         65.7         3.3         Dec-06         71.3           8         Detroit         600         Diesel         Dec-05         782.9         May-06         792.2         9.3         Dec-06         805.3         1           28         Onan Sons         1250DFLC-4987         1250         Diesel         Dec-05         11.9         May-06         23.2         11.3         Dec-06         52.6         805.3         1           28         Onan Sons         1465         200         Diesel         Nov-05         482.3         Apr-06         50.1         7.8         Dec-06         51.5         1           142         Cummins         DFEB-4963414         400         Diesel         Nov-05         75.0         Apr-06         79.4         4.4         Dec-06         515.6         1           14         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         715.9         146.0         Dec-06         715.9           Yard         Murphy         20         Diesel         Nov-05         136.5         May-06         140.4         5.9 <td< td=""><td>7,7</td><td>412</td><td>Olympian</td><td>95M-07874-F</td><td>200</td><td>Diesel</td><td>Nov-05</td><td></td><td></td><td>282.5</td><td></td><td>Dec-06</td><td>292</td><td>9.5</td></td<>	7,7	412	Olympian	95M-07874-F	200	Diesel	Nov-05			282.5		Dec-06	292	9.5
8         Detroit         600         Diesel         Dec-05         782.9         May-06         792.2         9.3         Dec-06         805.3           364         Onan Sons         1250DFLC-4987         1250         Diesel         Dec-05         11.9         May-06         23.2         11.3         Dec-06         52.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6         22.6	155	5			100	Nat. Gas	Dec-05	62.4		65.7	3.3	Dec-06	71.3	5.6
364         Onan Sons         1250PFLC-4987         1250         Diesel         Dec-05         41.9         May-06         23.2         11.3         Dec-06         52.6         22.7           28         Onan Sons         1465         200         Diesel         Nov-05         492.3         Apr-06         47.2         2.1         Dec-06         47.3           142         Cummins         DFEB-4963414         400         Diesel         Nov-05         75.0         Apr-06         79.4         4.4         Dec-06         515.6         1           142         Cummins         DFEB-4963414         400         Diesel         Nov-05         75.0         Apr-06         79.4         4.4         Dec-06         88.8           14         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         742.0         5.2         Dec-06         749.3           Yard         Murphy         20         Diesel         Nov-05         136.9         May-06         146.0         Dec-06         748.3           1         Onan Sons         20         Diesel         Nov-05         136.9         May-06         166.9         Dec-06         148.9	32	æ	Detroit		900	Diesel	Dec-05	782.9		792.2		90-c-O	805.3	13.1
28         Onan Sons         40         Diesel         Dec-05         45.1         Apr-06         47.2         2.1         Dec-06         47.3           47         Onan Sons         1465         200         Diesel         Nov-05         492.3         Apr-06         500.1         7.8         Dec-06         515.6         1           142         Cummins         DFEB-4963414         400         Diesel         Nov-05         75.0         Apr-06         79.4         4.4         Dec-06         88.8           Yard         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         742.0         5.2         Dec-06         749.3         749.3           Yard         Murphy         20         Diesel         Nov-05         569.9         May-06         716.9         Dec-06         716.9           1         Onan Sons         20         Diesel         Nov-05         134.5         May-06         169.9         0.0         Dec-06         189.9           3         Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         56.0         Dec-06         189.9           3	32	364	Onan Sons	1250DFLC-4987	1250	Diesel	Dec-05			23.2		Dec-06	52.6	29.4
47         Onan Sons         1465         200         Diesel         Nov-05         492.3         Apr-06         500.1         7.8         Dec-06         515.6         1           142         Currmins         DFEB-4963414         400         Diesel         Dec-05         75.0         Apr-06         79.4         4.4         Dec-06         88.8           14         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         742.0         5.2         Dec-06         749.3           Yard         Murphy         20         Diesel         Nov-05         569.9         May-06         715.9         146.0         Dec-06         715.9           1         Onan Sons         20         Diesel         Nov-05         134.5         May-06         140.4         5.9         Dec-06         189.9           3         Onan Sons         20         Diesel         Nov-05         35.0         Apr-06         5.6         Dec-06         189.9           3         Currmins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         5.6         Dec-06         189.9	15	28	Onan Sons		40	Diesel	Dec-05	45.1	Apr-06	47.2		Dec-06	47.3	0.1
142         Cummins         DEEB-4963414         400         Diesel         Dec-05         75.0         Apr-06         79.4         4.4         Dec-06         88.8           1         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         742.0         5.2         Dec-06         749.3           Yard         Murphy         20         Diesel         Nov-05         569.9         May-06         715.9         146.0         Dec-06         715.9           1         Onan Sons         20         Diesel         Nov-05         134.5         May-06         140.4         5.9         Dec-06         148.9           39         Onan Sons         20         Diesel         Dec-05         189.9         0.0         Dec-06         189.9           33         Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         5.6         Dec-06         189.9	35	47	Onan Sons	1465	200	Diesel	Nov-05			500.1	7.8	Dec-06	515.6	15.5
1         Allis Chalmers         2884-0703         90         Diesel         Nov-05         736.8         Apr-06         742.0         5.2         Dec-06         749.3           Yard         Murphy         20         Diesel         Nov-05         569.9         May-06         715.9         146.0         Dec-06         715.9           1         Onan Sons         250         Diesel         Nov-05         134.5         May-06         140.4         5.9         Dec-06         148           39         Onan Sons         20         Diesel         Dec-05         189.9         0.0         Dec-06         189.9           33         Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         40.6         5.6         Dec-06         189.9	55	142	Cummins	DFEB-4963414	400	Diesel	Dec-05			79.4	4.4	Dec-06	88.8	9.4
Yard         Murphy         20         Diesel         Nov-05         569.9         May-06         715.9         146.0         Dec-06         715.9           1         Onan Sons         250         Diesel         Nov-05         134.5         May-06         140.4         5.9         Dec-06         148           39         Onan Sons         20         Diesel         Dec-05         189.9         0.0         Dec-06         189.9           33         Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         40.6         5.6         Dec-06         53.2         1	66	4	Allis Chalmers	2884-0703	06	Diesel	Nov-05	736.8		742.0		Dec-06	749.3	7.3
1         Onan Sons         250         Diesel         Nov-05         134.5         May-06         140.4         5.9         Dec-06         148           39         Onan Sons         20         Diesel         Dec-05         189.9         May-06         189.9         0.0         Dec-06         189.9           33         Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         40.6         5.6         Dec-06         53.2         1	23	Yard	Murphy		20	Diesel	Nov-05	569.9		715.9		Dec-06	715.9	0
39 Onan Sons         20 Diesel         Dec-05         189.9         May-06         189.9         0.0         Dec-06         189.9           33 Cummins         DFLC-5568730         1250         Diesel         Nov-05         35.0         Apr-06         5.6         Dec-06         53.2	¥	-	Onan Sons		250	Diesel	Nov-05			140.4		Dec-06	148	7.6
33   Cummins   DFLC-5568730   1250   Diesel Nov-05  35.0   Apr-06   40.6   5.6   Diec-06   55.4	됬	36	Onan Sons		20	Diesel	Dec-05	***************************************	***************************************	189.9	-	Dec-06	189.9	0
		33	Cummins	DFLC-5568730	1250	Diesel	Nov-05	35.0		40.6	-	Dec-06	53.4	12.6

N/R = Not Read

Second half average hours per unit 31.9 First half average hours per unit

Annual Average of hours per unit

27.6

Attachment G
Data Disintegrator Box Throughput

## 2006 TA-52 Data Disintegrator

	Data Entry			Data Entry	
	Boxes	12-Month		Boxes	12-Month
Month	Shredded	Rolling Total	Month	Shredded	Rolling Total
January	1436	7897	July	068	9360
February	1040	8169	August	1468	10243
March	766	7870	September	669	10842
April	705	7731	October	328	11170
May	1023	7986	November	15	10865
June	1379	9228	December	560	10209
6 mo. Total	6,349		6 mo. Total:	3,860	
					1

10,209

Annual Boxes (2006):

Attachment H
Power Plant Natural Gas and Fuel Oil Usage

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			DAIAENIKI	ואואי				
	TA-3-22 Steam Pla	team Plant	TA-3-22 Steam Plant	eam Plant	TA-3-22 Steam Plant	eam Plant		
	Boiler # 1 (Edgemoor	dgemoor Iron MMBTU/hr)	Boiler # 2 (Edgemoor Iron Works, 210 MMBTU/hr)	Igemoor Iron MMBTU/hr)	Boiler # 3 (Union Iron Works, 210 MMBTU/hr)	on Iron Works, BTU/hr)	Monthly Totals	Totals
	Natural Gas	Fuel Oil	Natural Gas	Fuel Oil	Natural Gas	Filel Oil	Natitral Gas	<u> </u>
Month	(MCF)	(gallons)	(MCF)	(gallons)	(MCF)	(gallons)	(MMCF)	(dallons)
January	5,171	0	7,866	0	55 572	·	68 600	( )
February	4.840	713	5,675	0	77,000	*	00.00	
March	1 03/1	600	0.000	0	47,920	0	58.435	713
Anril	100.	600	10,104	319	45,818	0	57.856	922
		0	8,249	378	41,663	0	49 912	370
Ividy	0	0	24.512	651	0.412		710.01	010
June					2,4.0	0	33.924	651
\[\]\		0 0	28,120	658	1,346	0	29.466	658
A	0	0	26,542	1,163	342	0	26 884	1163
August	17,919	0	6,403	0	2 705		700.70	
September	24,522	0	4.077		1 801		120.12	0
October	32.044	438	2 130		1,001		33.490	0
November	25,694	2	4,100	0 3.	47,040	0	82.031	438
Docombor	20,001		719'67	13,368	9,492	2,634	64.785	16002
	35,930	0	12,293	0	28,005	219	76 228	219
Annual Totals:	148,041	1,754	165,592	16,537	295.014	2 853	608 647	01447
Jan June	11,945	1,316	84.526	2 006	201 731	0	200.000	0000
July - Dec.	136 096	138	04 066	2001 F F	101,102		707.057	3322
	000,000	100	000,10	14,53	93,283	2,853	310,445	17822

	Natural Gas	Fuel Oil
	(MMscf)	(Gallons)
Annual Totals:	608.65	21144.00
Jan June	298.20	3322.00
July - Dec.	310.45	17822.00

Totals by Fuel Type

	12-Mo. Rolling Total	12-Mo. Rolling Total
Month	Natural Gas (MMscf)	Fuel Oil (gallons)
January	561.9	4403
February	563.4	4994
March	561.7	5881
April	563.9	5215
May	556.1	4970
June	554.9	4972
July	552.1	6135
August	551.3	5558
September	556.9	5558
October	596.7	5010
November	608.0	21012
December	608.6	21144

_	7
500.000 gallons	
2000 MMscf	
Permit Limits:	

#### Attachment I Power Plant Opacity Reports

Summary Table, Reports Attached

Source	Date	Time	*Average Opacity
TA-3-22 Power Plant	07-07-06	10:56 am	0%
	07-11-06	9:25 am	3.125%
	07-18-06	8:00 am	0%
	07-25-06	8:50 am	0%
	10-10-06	9:45 am	3.38%
	11-07-06	9:08 am	0%
	11-07-06	9:48 am	0.5%
	11-14-06	9:08 am	0.5%
	11-14-06	12:20 am	14.875%
	11-14-06	1:37 pm	0%
	11-21-06	9:25am	0%
	12-14-06	8:43 am	2.375%

<sup>\*</sup> Average opacity for the Power Plant is the sum of the highest consecutive 40 readings divided by 40 (10 minutes of readings). The method is in accordance with 20.2.61 NMAC.

				····						
Fuel oil Boiler #2	OESE F.V	- 7-				0:54		2700	:19	7
TA3 SMZZ POWER Plant	Min.	0	15	30	45	Min.	. 0	15	30	45
Fue oil NA	1	0	0	0	0	13	0	0	0	()
Totof NW Stack	2	0	0	0	O	14	0	0	0	0
eight Above Ground Level Height Relative to Observe:	3	O	0	0	0	15	0	0	0	0
Istance from Observer / Feet Direction from Observer	۵	0	0	0	0	16	0	0	0	0
escription of Flume (stack exit only) [ Cotting   Trapping	£	0	0	0	0	17	0	0	0	0
BACK Plume Type  Continuous D Fugitive Fintermittent	6	0	Ò	0	0	18	0	0	5	0
Pater Droplets Fresent?  NO DYES ITYES, groplet plume is DAttached Detached	7	0	0	0	0	19	0	$\bigcirc$	0	0
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RECORD OF VISUAL DETERMINATION OF OPACITY DESERVATION DATE ST ART TIME Fuloil # 3 Boile IFCI 45 am 10.10.06 1050 Am 30 i 45 0 15 0 15 30 | 45 x of Source 13 cribe I mission Foint (top of stack, etc.) 0 0 0) 14 liztive to Observe: ght Aticve Ground Leve 15 170 Feet 150 Direction from Otserve: 16 Yaro: Lotting [ Trepping cription of Flume (stack exit only) £ 17 [] Furnication Conine 🔲 fenning Inches T Plume Type ission Color E 18 Continuous D'Eugitive Mintermittent 13/Acke 7 19 THE DIVES HI YES, displet plume is Distracted Distracted what point in the plume was opacity determined 8 20 scribe beckground fle. blue s Õ 21 Sky Concilions Charoune Color 22 10 11 23 mph Relative Humicity ntient lemperature 12 24 Range of Opecity Resolngs DMMENTS: Min.: 0 OESERVER Signatus 827.06 IMPORTANT: Please indicate the following by sketch: DIEW ALLOW IN North Direction Plume Direction North I acknowledge receipt of a copy of these visible emissions observations. Observer's Fostion.

D 005 (perc 3/6)

Den: 10-10-06

		Ps#3
Fortoil #3 Bolher	3 STAD NOI TAVA 3230	TARTTIME STOPTIME
CATION TA 3 Sm 22 Power Plant	Mir. 0 15 30 45	Sec TO TOM
perot Science   Type of Control Court many	10000	13 0000
16 P of Stack	20000	14 0000
ight Above Ground Level Height Relative to Observe:	:0000	15 0000
Stance from Observer  2 TO Yards  Direction from Observer	40000	160000
Scription of Flume Istack exit only)	£ 0 0 0 0	170000
Black   Continuous   Fugitive   Intermittent	60000	18
ter Droplets Fresent?  NC   YES   11 YES, Groplet plume is   Attached   Detached	70000	19
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Wine Direction (la. from North to aduth)	10 0 0 0 0	22
8 mph 556	11 0000	23
•f •f 3	12 0 0 0 0	-24
DMME NTS:	Average Opacity  3.38  OESERVER (pieze print)	Min.: O Mea.: 80
· ·	Name: Atte of Gails	Date Title:
	Organization , ,	Certification Date
	1 K3L.	8.29.06
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		eipt of a copy of thes
Observer's Fourtion	visible emissions of Signature	12511
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1 2 500 23	Jen.	

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reight Above Ground Level Feet SAME Feet	1 3	IA	1		1	,,	10				
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WHITE CLOUDS  Sky Conclitions			ىد	_/>	25	21	0	0	0	0	
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Draw Arrow in		IMP	ORTA	NT: I		indicate 1	he tol	lowing	bv :	Etch.	
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<u> </u>	Type of Control Equipment	Min. 1	0	0	0	٦	13	0	0	0	0		
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ribe Emission Point (top of stack, et		2	0	0	0	0	14	0	0	0	0		
ht Above Ground Level	Height Relative to Observer  SAME Feet	3	0	0	0	0	15	-					
Ince from Observer	Direction from Observer SAME	4	0	0	0	0	16						
ription of Plume (stack exit only)			0	0	0	0	17						
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	olume is Attached Detached determined?	8	0	0	10	0	20						
cribe Eachground (i.e. blue sky, tree	s, etc.)	6	0	0	0	0	21						
RIOC 3K4 -W173		10	0	0	0	0	22						
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nblent Temperature   Wet Temper		12	8	0	0	0	-24						
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